

Jeremy Driskell

List of Publications by Year in descending order

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38
papers

3,939
citations

172386

29
h-index

315616

38
g-index

38
all docs

38
docs citations

38
times ranked

4673
citing authors

#	ARTICLE	IF	CITATIONS
1	Femtomolar Detection of Prostate-Specific Antigen: An Immunoassay Based on Surface-Enhanced Raman Scattering and Immunogold Labels. <i>Analytical Chemistry</i> , 2003, 75, 5936-5943.	3.2	828
2	Rapid and Sensitive Detection of Respiratory Virus Molecular Signatures Using a Silver Nanorod Array SERS Substrate. <i>Nano Letters</i> , 2006, 6, 2630-2636.	4.5	578
3	Low-Level Detection of Viral Pathogens by a Surface-Enhanced Raman Scattering Based Immunoassay. <i>Analytical Chemistry</i> , 2005, 77, 6147-6154.	3.2	286
4	The Use of Aligned Silver Nanorod Arrays Prepared by Oblique Angle Deposition as Surface Enhanced Raman Scattering Substrates. <i>Journal of Physical Chemistry C</i> , 2008, 112, 895-901.	1.5	254
5	Labeled Gold Nanoparticles Immobilized at Smooth Metallic Substrates: A Systematic Investigation of Surface Plasmon Resonance and Surface-Enhanced Raman Scattering. <i>Journal of Physical Chemistry B</i> , 2006, 110, 17444-17451.	1.2	218
6	One-step assay for detecting influenza virus using dynamic light scattering and gold nanoparticles. <i>Analyst, The</i> , 2011, 136, 3083.	1.7	136
7	Identification and classification of respiratory syncytial virus (RSV) strains by surface-enhanced Raman spectroscopy and multivariate statistical techniques. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 390, 1551-1555.	1.9	127
8	Label-Free Detection of Micro-RNA Hybridization Using Surface-Enhanced Raman Spectroscopy and Least-Squares Analysis. <i>Journal of the American Chemical Society</i> , 2012, 134, 12889-12892.	6.6	99
9	pH Impacts the Orientation of Antibody Adsorbed onto Gold Nanoparticles. <i>Bioconjugate Chemistry</i> , 2019, 30, 1182-1191.	1.8	97
10	Rapid and Sensitive Detection of Rotavirus Molecular Signatures Using Surface Enhanced Raman Spectroscopy. <i>PLoS ONE</i> , 2010, 5, e10222.	1.1	92
11	Monitoring gold nanoparticle conjugation and analysis of biomolecular binding with nanoparticle tracking analysis (NTA) and dynamic light scattering (DLS). <i>Analyst, The</i> , 2013, 138, 1212.	1.7	92
12	Spectroscopic Analysis of Metal Ion Binding in Spiropyran Containing Copolymer Thin Films. <i>Analytical Chemistry</i> , 2010, 82, 3306-3314.	3.2	90
13	Quantifying Bound and Active Antibodies Conjugated to Gold Nanoparticles: A Comprehensive and Robust Approach To Evaluate Immobilization Chemistry. <i>ACS Omega</i> , 2018, 3, 8253-8259.	1.6	90
14	Surface-Enhanced Raman Scattering Immunoassays Using a Rotated Capture Substrate. <i>Analytical Chemistry</i> , 2007, 79, 4141-4148.	3.2	83
15	Fabrication and characterization of a multiwell array SERS chip with biological applications. <i>Biosensors and Bioelectronics</i> , 2009, 24, 3663-3670.	5.3	74
16	Quantitative Surface-Enhanced Raman Spectroscopy Based Analysis of MicroRNA Mixtures. <i>Applied Spectroscopy</i> , 2009, 63, 1107-1114.	1.2	61
17	Fabrication of Spiropyran-Containing Thin Film Sensors Used for the Simultaneous Identification of Multiple Metal Ions. <i>Langmuir</i> , 2011, 27, 12253-12260.	1.6	58
18	Detection of <i>Mycoplasma pneumoniae</i> in Simulated and True Clinical Throat Swab Specimens by Nanorod Array-Surface-Enhanced Raman Spectroscopy. <i>PLoS ONE</i> , 2010, 5, e13633.	1.1	57

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19	Integrating SERS and PSI-MS with Dual Purpose Plasmonic Paper Substrates for On-Site Illicit Drug Confirmation. <i>Analytical Chemistry</i> , 2020, 92, 6676-6683.	3.2	53
20	Infectious Agent Detection With SERS-Active Silver Nanorod Arrays Prepared by Oblique Angle Deposition. <i>IEEE Sensors Journal</i> , 2008, 8, 863-870.	2.4	52
21	Accelerated Surface-Enhanced Raman Spectroscopy (SERS)-Based Immunoassay on a Gold-Plated Membrane. <i>Analytical Chemistry</i> , 2013, 85, 8609-8617.	3.2	52
22	SERS immunoassay based on the capture and concentration of antigen-assembled gold nanoparticles. <i>Talanta</i> , 2016, 146, 388-393.	2.9	47
23	Rapid screening of antibody-antigen binding using dynamic light scattering (DLS) and gold nanoparticles. <i>Analytical Methods</i> , 2015, 7, 7249-7255.	1.3	42
24	The \pm -Effect in Methyl Transfers from S-Methylthiophenium Fluoroborate to Substituted N-Methylbenzohydroxamates. <i>Journal of Organic Chemistry</i> , 2003, 68, 1810-1814.	1.7	41
25	Role of Free Thiol on Protein Adsorption to Gold Nanoparticles. <i>Langmuir</i> , 2020, 36, 9241-9249.	1.6	40
26	Detection and Differentiation of Avian Mycoplasmas by Surface-Enhanced Raman Spectroscopy Based on a Silver Nanorod Array. <i>Applied and Environmental Microbiology</i> , 2012, 78, 1930-1935.	1.4	37
27	A fluorescence-based method to directly quantify antibodies immobilized on gold nanoparticles. <i>Analyst</i> , 2016, 141, 3851-3857.	1.7	37
28	Antibodies Irreversibly Adsorb to Gold Nanoparticles and Resist Displacement by Common Blood Proteins. <i>Langmuir</i> , 2019, 35, 10601-10609.	1.6	33
29	Chemical modification of antibodies enables the formation of stable antibody-gold nanoparticle conjugates for biosensing. <i>Analyst</i> , 2017, 142, 4456-4467.	1.7	32
30	Emerging Technologies in Nanotechnology-Based Pathogen Detection. <i>Clinical Microbiology Newsletter</i> , 2009, 31, 137-144.	0.4	21
31	Rapid vertical flow immunoassay on AuNP plasmonic paper for SERS-based point of need diagnostics. <i>Talanta</i> , 2021, 223, 121739.	2.9	20
32	Probing the Mechanism of Antibody-Triggered Aggregation of Gold Nanoparticles. <i>Langmuir</i> , 2021, 37, 2993-3000.	1.6	20
33	High-Affinity Points of Interaction on Antibody Allow Synthesis of Stable and Highly Functional Antibody-Gold Nanoparticle Conjugates. <i>Bioconjugate Chemistry</i> , 2021, 32, 1753-1762.	1.8	20
34	Control of Antigen Mass Transport via Capture Substrate Rotation: Binding Kinetics and Implications on Immunoassay Speed and Detection Limits. <i>Analytical Chemistry</i> , 2009, 81, 6175-6185.	3.2	19
35	Effect of Hydration on Plasmonic Coupling of Bioconjugated Gold Nanoparticles Immobilized on a Gold Film Probed by Surface-Enhanced Raman Spectroscopy. <i>Langmuir</i> , 2014, 30, 6309-6313.	1.6	17
36	Control of antigen mass transfer via capture substrate rotation: An absolute method for the determination of viral pathogen concentration and reduction of heterogeneous immunoassay incubation times. <i>Journal of Virological Methods</i> , 2006, 138, 160-169.	1.0	14

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37	Rotationally Induced Hydrodynamics: Fundamentals and Applications to High-Speed Bioassays. Annual Review of Analytical Chemistry, 2010, 3, 387-407.	2.8	12
38	Sandwiching analytes with structurally diverse plasmonic nanoparticles on paper substrates for surface enhanced Raman spectroscopy. RSC Advances, 2019, 9, 32535-32543.	1.7	10